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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/661,430	09/13/2000	Satoshi Ejima	107323	8405	
25944	7590 04/11/2005		EXAM	INER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			JERABEK,	JERABEK, KELLY L	
ALEXANDRIA, VA 22320			ART UNIT	PAPER NUMBER	
			2612		
		DATE MAILED: 04/11/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/661,430	EJIMA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Kelly L. Jerabek	2612			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from h, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>05 November 2004</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	This action is FINAL . 2b) ☐ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 16-18,36 and 37 is/are pending in the 4a) Of the above claim(s) 1-15 and 19-35 is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 16-18 and 36-37 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	e withdrawn from consideration.				
Application Papers	1				
9)⊠ The specification is objected to by the Examine	r				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892)	A) 🔲 Indonésia ()	(DTO 442)			
2) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	nte			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

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DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 16-18 and 36-37 have been considered but are moot in view of the new ground(s) of rejection.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 16-17 and 36-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mead et al. US 6,646,680 in view of Fling et al. US 4,652,908.

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Re claim 16, Mead discloses in figure 8 an image-capturing device (800) that captures an image through a taking lens (fig. 1: 101)(col. 3, lines 4-12). The camera (800) includes a sub-sampling circuit that sub-samples the image signal and reads out sub-sampled image signals (col. 6, lines 65-67; col. 7, lines 1-12). The sub-sampled image capture signal is then read out and a specific type of processing (eg: image is adjusted and focused) is performed on the sub-sampled image (col. 7, lines 7-12). However, Mead does not specifically disclose that the camera includes a signal processing circuit that changes a value of specific signals in the sub-sampled image capture signals to emphasize the image capture signal.

Fling discloses in figure 1 a pix-in-pix processing circuit in a television signal display device that includes a peaking filter that processes a sub-sampled image signal to enhance the reproduced image (col. 2, lines 11-17 and 51-64). The peaking filter of the processing circuit changes a value of specific signals in the sub-sampled image capture signals to emphasize the image capture signal (col. 4, lines 30-57). Therefore, it would have been obvious for one skilled in the art to have been motivated to include the processing circuit including a peaking filter as disclosed by Fling in the digital camera capable of sub-sampling an image signal as disclosed by Mead. Doing so would provide a means for processing filtered and sub-sampled image signals to enhance vertical edges in a reproduced image (Fling: col. 2, lines 11-17).

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Re claim 17, Mead discloses a display device (804) displays an image using the sub-sampled signal (col. 7, lines 1-12). Also, Fling states that the peaking level of the peaking filter is adjusted to develop a more uniform image for display (col. 4, lines 31-57).

Re claim 36, Fling states that the signal processing circuit increases the peaking level of the peaking filter to increase the brightness of the image to create a more uniform image (col. 4, lines 51-57).

Re claim 37, Fling states that a user may adjust the peaking level to increase or reduce the amount by which high frequency components are peaked to produce an image of desired characteristics (col. 4, lines 43-48).

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mead et al. in view of Fling et al. and further in view of Jang et al. US 5,200,828.

Re claim 18, the combination of the Mead and Fling references includes all of the limitations according to claim 16. Furthermore, Mead states that a focus adjustment can be made based on a sub-sampled image (col. 7, lines 7-10). However, Mead in view of Fling does not mention a contrast detection circuit for detecting contrast in the subject image by using the sub-sampled image signal and detecting a focal adjustment

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state of the taking lens of the camera by using the results of the contrast detection circuit.

Jang discloses in figure 2 and auto-focusing method for a video camera. A contrast detection circuit detects contrast of a subject image and produces digital weighted signals (30) (col. 4, lines 32-60). The weighted signals (30) corresponding to the contrast in the image signals are then sent to a digital integrator and focusing values (40) are generated (col. 4, lines 54-60). Finally, a focal adjustment state of the lens is determined based on the focusing values (40) and the focus of the lens is adjusted (col. 5, lines 1-31). Therefore, it would have been obvious to include the concept of adjusting the focus of the lens of a camera based on a detected contrast of a captured image as disclosed by Jang in the camera employing scanning circuitry for sub-sampling an image signal as disclosed by Mead in view of Fling. Doing so would provide a means for maximizing the focusing value of a camera by adjusting the focus based on the detected contrast of the image signal (Jang: col. 2, lines 10-25).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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incation/Control Number: 05/001,40

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contacts

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kelly L. Jerabek whose telephone number is (571) 272-7312. The examiner can normally be reached on Monday - Friday (8:00 AM - 5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (571) 272-7308. The fax phone number for submitting all Official communications is 703-872-9306. The fax phone number for submitting informal communications such as drafts, proposed amendments, etc., may be faxed directly to the Examiner at (571) 273-7312.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KLJ

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